

Ralph G Nuzzo

List of Publications by Year in descending order

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papers

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42158
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#	ARTICLE	IF	CITATIONS
1	Biomimetic and Biologically Compliant Soft Architectures via 3D and 4D Assembly Methods: A Perspective. <i>Advanced Materials</i> , 2022, 34, e2108391.	11.1	34
2	Role of Atomic Structure on Exciton Dynamics and Photoluminescence in NIR Emissive InAs/InP/ZnSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7576-7587.	1.5	7
3	Biocompliant Composite Au/pHEMA Plasmonic Scaffolds for 3D Cell Culture and Noninvasive Sensing of Cellular Metabolites. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001040.	3.9	11
4	3D Particle-Free Printing of Biocompatible Conductive Hydrogel Platforms for Neuron Growth and Electrophysiological Recording. <i>Advanced Functional Materials</i> , 2021, 31, 2010246.	7.8	38
5	Bio-Compliant Composites: Biocompliant Composite Au/pHEMA Plasmonic Scaffolds for 3D Cell Culture and Noninvasive Sensing of Cellular Metabolites (<i>Adv. Healthcare Mater.</i> 4/2021). <i>Advanced Healthcare Materials</i> , 2021, 10, 2170016.	3.9	0
6	Dynamic structure of active sites in ceria-supported Pt catalysts for the water gas shift reaction. <i>Nature Communications</i> , 2021, 12, 914.	5.8	103
7	High Energy Density and Stable Three-Dimensionally Structured Se-Loaded Bicontinuous Porous Carbon Battery Electrodes. <i>Energy Technology</i> , 2021, 9, 2100175.	1.8	4
8	Outdoor performance of a tandem InGaP/Si photovoltaic luminescent solar concentrator. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110945.	3.0	13
9	Fabrication techniques for high-performance Si heterojunction (SHJ) microcells. , 2021, , .		0
10	Single Atom Catalysts: A Review of Characterization Methods. <i>Chemistry Methods</i> , 2021, 1, 278-294.	1.8	49
11	Silicon Heterojunction Microcells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45600-45608.	4.0	1
12	Aliovalent Doping of CeO ₂ Improves the Stability of Atomically Dispersed Pt. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52736-52742.	4.0	11
13	Autonomous Light Management in Flexible Photoelectrochromic Films Integrating High Performance Silicon Solar Microcells. <i>ACS Applied Energy Materials</i> , 2020, 3, 1540-1551.	2.5	13
14	Energy Storage Mechanisms in High-Capacity Graphitic C ₃ N ₄ Cathodes for Al-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10288-10297.	1.5	16
15	Local Structure and Electronic State of Atomically Dispersed Pt Supported on Nanosized CeO ₂ . <i>ACS Catalysis</i> , 2019, 9, 8738-8748.	5.5	70
16	Designing and transforming yield-stress fluids. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 100758.	5.6	66
17	Ionic Hydrogels with Biomimetic 4D-Printed Mechanical Gradients: Models for Soft-bodied Aquatic Organisms. <i>Advanced Functional Materials</i> , 2019, 29, 1806723.	7.8	37
18	CoS ₂ as a Sulfur Redox-Active Cathode Material for High-Capacity Nonaqueous Zn Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8740-8745.	1.5	30

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19	High capacity 3D structured tin-based electroplated Li-ion battery anodes. <i>Energy Storage Materials</i> , 2019, 17, 151-156.	9.5	36
20	3D-Printed Hydrogel Composites for Predictive Temporal (4D) Cellular Organizations and Patterned Biogenic Mineralization. <i>Advanced Healthcare Materials</i> , 2019, 8, e1800788.	3.9	21
21	Controlling Interfacial Properties of Lithium-Ion Battery Cathodes with Alkylphosphonate Self-Assembled Monolayers. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701292.	1.9	22
22	A compact spectrum splitting concentrator for high concentration photovoltaics based on the dispersion of a lens. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 06LT01.	1.0	0
23	Particle-Free Emulsions for 3D Printing Elastomers. <i>Advanced Functional Materials</i> , 2018, 28, 1707032.	7.8	37
24	A Printing-Centric Approach to the Electrostatic Modification of Polymer/Clay Composites for Use in 3D Direct Ink Writing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701579.	1.9	8
25	Identifying Dynamic Structural Changes of Active Sites in Pt-Ni Bimetallic Catalysts Using Multimodal Approaches. <i>ACS Catalysis</i> , 2018, 8, 4120-4131.	5.5	54
26	Toward a Four-Electron Redox Quinone Polymer for High Capacity Lithium Ion Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1700960.	10.2	60
27	In situ surface stress measurement and computational analysis examining the oxygen reduction reaction on Pt and Pd. <i>Electrochimica Acta</i> , 2018, 260, 400-406.	2.6	14
28	Understanding the Effect of Interlayers at the Thiophosphate Solid Electrolyte/Lithium Interface for All-Solid-State Li Batteries. <i>Chemistry of Materials</i> , 2018, 30, 8747-8756.	3.2	75
29	High Energy Density CNT/NaI Composite Cathodes for Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801342.	1.9	9
30	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. <i>Scientific Reports</i> , 2018, 8, 14907.	1.6	4
31	ZnNi ₂ MnCo ₂ O ₄ Spinel as a High-Voltage and High-Capacity Cathode Material for Nonaqueous Zn-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800589.	10.2	105
32	Semiconductor Nanomembrane Materials for High-Performance Soft Electronic Devices. <i>Journal of the American Chemical Society</i> , 2018, 140, 9001-9019.	6.6	34
33	Design Criteria for Micro-Optical Tandem Luminescent Solar Concentrators. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1560-1567.	1.5	35
34	Solid-Liquid Lithium Electrolyte Nanocomposites Derived from Porous Molecular Cages. <i>Journal of the American Chemical Society</i> , 2018, 140, 7504-7509.	6.6	41
35	Emulsions: Particle-Free Emulsions for 3D Printing Elastomers (<i>Adv. Funct. Mater.</i> 21/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870141.	7.8	1
36	Anisotropic Mg Electrodeposition and Alloying with Ag-based Anodes from Non-Coordinating Mixed-Metal Borohydride Electrolytes for Mg Hybrid Batteries. <i>Electrochimica Acta</i> , 2017, 229, 112-120.	2.6	6

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37	Quantitative Reflection Imaging for the Morphology and Dynamics of Live <i>Aplysia californica</i> Pedal Ganglion Neurons Cultured on Nanostructured Plasmonic Crystals. <i>Langmuir</i> , 2017, 33, 8640-8650.	1.6	3
38	Porous Nanomaterials: Porous Nanomaterials for Ultrabroadband Omnidirectional Anti-Reflection Surfaces with Applications in High Concentration Photovoltaics (<i>Adv. Energy Mater.</i> 7/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	2
39	Evolution at the Solid Electrolyte/Gold Electrode Interface during Lithium Deposition and Stripping. <i>Chemistry of Materials</i> , 2017, 29, 3029-3037.	3.2	117
40	Porous Nanomaterials for Ultrabroadband Omnidirectional Anti-Reflection Surfaces with Applications in High Concentration Photovoltaics. <i>Advanced Energy Materials</i> , 2017, 7, 1601992.	10.2	27
41	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9455-E9464.	3.3	129
42	Optimization of Photon and Electron Collection Efficiencies in Silicon Solar Microcells for Use in Concentration-Based Photovoltaic Systems. <i>Advanced Materials Technologies</i> , 2017, 2, 1700169.	3.0	6
43	A programmable soft chemo-mechanical actuator exploiting a catalyzed photochemical water-oxidation reaction. <i>Soft Matter</i> , 2017, 13, 7312-7317.	1.2	18
44	ZnAl ₂ Co ₂ O ₄ Spinel as Cathode Materials for Non-Aqueous Zn Batteries with an Open Circuit Voltage of ~2 V. <i>Chemistry of Materials</i> , 2017, 29, 9351-9359.	3.2	83
45	High-concentration planar microtracking photovoltaic system exceeding 30% efficiency. <i>Nature Energy</i> , 2017, 2, .	19.8	56
46	Deterministic Integration of Biological and Soft Materials onto 3D Microscale Cellular Frameworks. <i>Advanced Biology</i> , 2017, 1, 1700068.	3.0	18
47	3D-Printed pHEMA Materials for Topographical and Biochemical Modulation of Dorsal Root Ganglion Cell Response. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30318-30328.	4.0	32
48	Multimodal Study of the Speciations and Activities of Supported Pd Catalysts During the Hydrogenation of Ethylene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18962-18972.	1.5	24
49	Anomalous Structural Disorder in Supported Pt Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3284-3288.	2.1	18
50	Micro-optical Tandem Luminescent Solar Concentrator. , 2017, , .		6
51	Quantum dot emission modulation using piezoelectric photonic crystal MEMS resonators. <i>Optics Express</i> , 2017, 25, 25831.	1.7	1
52	Refractive index sensing and surface-enhanced Raman spectroscopy using silver-gold layered bimetallic plasmonic crystals. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2492-2503.	1.5	4
53	Concentrator photovoltaic module architectures with capabilities for capture and conversion of full global solar radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8210-E8218.	3.3	48
54	Dynamic Surface Stress Response during Reversible Mg Electrodeposition and Stripping. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2679-A2684.	1.3	9

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55	Cellular Microcultures: Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing (Adv. Healthcare Mater. 9/2016). Advanced Healthcare Materials, 2016, 5, 990-990.	3.9	4
56	Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing. Advanced Healthcare Materials, 2016, 5, 1025-1039.	3.9	32
57	3D Scaffolded Nickel-Tin Alloy Anodes with Enhanced Cyclability. Advanced Materials, 2016, 28, 742-747.	11.1	90
58	Biomimetic 4D printing. Nature Materials, 2016, 15, 413-418.	13.3	2,268
59	Design, fabrication, and characterization of a proposed microchannel water electrolyzer. Journal of Power Sources, 2016, 307, 122-128.	4.0	13
60	Enhanced Photon Collection in Luminescent Solar Concentrators with Distributed Bragg Reflectors. ACS Photonics, 2016, 3, 278-285.	3.2	58
61	Comprehensive energy analysis of a photovoltaic thermal water electrolyzer. Applied Energy, 2016, 164, 294-302.	5.1	36
62	Characterizing Working Catalysts with Correlated Electron and Photon Probes. Microscopy and Microanalysis, 2015, 21, 563-564.	0.2	2
63	Passivation Dynamics in the Anisotropic Deposition and Stripping of Bulk Magnesium Electrodes During Electrochemical Cycling. ACS Applied Materials & Interfaces, 2015, 7, 18406-18414.	4.0	39
64	Polarization controlled output of electrohydrodynamic jet printed quantum dot embedded photonic crystals for display applications. , 2015, , .		0
65	Operando Characterization of Catalysts through use of a Portable Microreactor. ChemCatChem, 2015, 7, 3683-3691.	1.8	29
66	Exploring Salt and Solvent Effects in Chloride-Based Electrolytes for Magnesium Electrodeposition and Dissolution. Journal of Physical Chemistry C, 2015, 119, 13524-13534.	1.5	71
67	Complex structural dynamics of nanocatalysts revealed in Operando conditions by correlated imaging and spectroscopy probes. Nature Communications, 2015, 6, 7583.	5.8	118
68	Quantum Dot Luminescent Concentrator Cavity Exhibiting 30-fold Concentration. ACS Photonics, 2015, 2, 1576-1583.	3.2	126
69	Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. Science, 2015, 347, 154-159.	6.0	745
70	Comparative in Operando Studies in Heterogeneous Catalysis: Atomic and Electronic Structural Features in the Hydrogenation of Ethylene over Supported Pd and Pt Catalysts. ACS Catalysis, 2015, 5, 1539-1551.	5.5	46
71	Synergetic Role of Li during Mg Electrodeposition/Dissolution in Borohydride Diglyme Electrolyte Solution: Voltammetric Stripping Behaviors on a Pt Microelectrode Indicative of Mg-Li Alloying and Facilitated Dissolution. ACS Applied Materials & Interfaces, 2015, 7, 2494-2502.	4.0	46
72	Programming matter through strain. Extreme Mechanics Letters, 2015, 3, 8-16.	2.0	25

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73	Intracluster Atomic and Electronic Structural Heterogeneities in Supported Nanoscale Metal Catalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25615-25627.	1.5	9
74	Improving Electrodeposition of Mg through an Open Circuit Potential Hold. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23366-23372.	1.5	19
75	Oxygen reduction reaction induced pH-responsive chemo-mechanical hydrogel actuators. <i>Soft Matter</i> , 2015, 11, 7953-7959.	1.2	31
76	Influence of Oxides on the Stress Evolution and Reversibility during SnO _x Conversion and Li-Sn Alloying Reactions. <i>Advanced Energy Materials</i> , 2015, 5, 1400317.	10.2	24
77	Effects of Adsorbate Coverage and Bond Length Disorder on the d-Band Center of Carbon-Supported Pt Catalysts. <i>ChemPhysChem</i> , 2014, 15, 1569-1572.	1.0	17
78	Electrolytic Conditioning of a Magnesium Aluminum Chloride Complex for Reversible Magnesium Deposition. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27623-27630.	1.5	167
79	Printing-based assembly of quadruple-junction four-terminal microscale solar cells and their use in high-efficiency modules. <i>Nature Materials</i> , 2014, 13, 593-598.	13.3	143
80	Luminescent Solar Concentration with Semiconductor Nanorods and Transfer-Printed Micro-Silicon Solar Cells. <i>ACS Nano</i> , 2014, 8, 44-53.	7.3	153
81	Knowing when small is better. <i>Nature Nanotechnology</i> , 2014, 9, 962-963.	15.6	13
82	High efficiency quadruple junction, four-terminal solar cells and modules by transfer printing. , 2014, , .		0
83	A Comparison of Atomistic and Continuum Approaches to the Study of Bonding Dynamics in Electrocatalysis: Microcantilever Stress and in Situ EXAFS Observations of Platinum Bond Expansion Due to Oxygen Adsorption during the Oxygen Reduction Reaction. <i>Analytical Chemistry</i> , 2014, 86, 8368-8375.	3.2	12
84	Black silicon solar thin-film microcells integrating top nanocone structures for broadband and omnidirectional light-trapping. <i>Nanotechnology</i> , 2014, 25, 305301.	1.3	18
85	Printed high-efficiency quadruple-junction, four-terminal solar cells and modules for full spectrum utilization. , 2014, , .		0
86	Noncrystalline-to-Crystalline Transformations in Pt Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 13062-13072.	6.6	71
87	Model Ge microstructures as anodes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 3015-3020.	1.2	8
88	An <i>in Situ</i> Study of Bond Strains in 1 nm Pt Catalysts and Their Sensitivities to Cluster-Support and Cluster-Adsorbate Interactions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23286-23294.	1.5	47
89	Light Trapping in Ultrathin Monocrystalline Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1401-1406.	10.2	61
90	Fabrication and assembly of ultrathin high-efficiency silicon solar microcells integrating electrical passivation and anti-reflection coatings. <i>Energy and Environmental Science</i> , 2013, 6, 3071.	15.6	34

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91	Enhanced ultraviolet responses in thin-film InGaP solar cells by down-shifting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20434.	1.3	26
92	Metastability and Structural Polymorphism in Noble Metals: The Role of Composition and Metal Atom Coordination in Mono- and Bimetallic Nanoclusters. <i>ACS Nano</i> , 2013, 7, 1542-1557.	7.3	37
93	UV patternable thin film chemistry for shape and functionally versatile self-oscillating gels. <i>Soft Matter</i> , 2013, 9, 1231-1243.	1.2	52
94	Electronically Programmable, Reversible Shape Change in Two- and Three-Dimensional Hydrogel Structures (<i>Adv. Mater.</i> 11/2013). <i>Advanced Materials</i> , 2013, 25, 1540-1540.	11.1	0
95	Electronically Programmable, Reversible Shape Change in Two- and Three-Dimensional Hydrogel Structures. <i>Advanced Materials</i> , 2013, 25, 1541-1546.	11.1	169
96	Doubling the Power Output of Bifacial Thin-Film GaAs Solar Cells by Embedding Them in Luminescent Waveguides. <i>Advanced Energy Materials</i> , 2013, 3, 991-996.	10.2	47
97	Quantitative Reflection Imaging of Fixed <i>Aplysia californica</i> Pedal Ganglion Neurons on Nanostructured Plasmonic Crystals. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13069-13081.	1.2	10
98	Mechanisms of Enhanced Optical Absorption for Ultrathin Silicon Solar Microcells with an Integrated Nanostructured Backside Reflector. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4239-4246.	4.0	12
99	X-ray diffraction microscopy of lithiated silicon microstructures. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	8
100	A Finite-Deformation Mechanics Theory for Kinetically Controlled Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	29
101	Light Trapping: Light Trapping in Ultrathin Monocrystalline Silicon Solar Cells (<i>Adv. Energy Mater.</i>)	10.2	4
102	Directed Transport as a Route to Improved Performance in Micropore-Modified Encapsulated Multilayer Silicon Electrodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1746-A1752.	1.3	1
103	A thermal analysis of the operation of microscale, inorganic light-emitting diodes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 3215-3223.	1.0	29
104	In Situ Electrochemical X-ray Absorption Spectroscopy of Oxygen Reduction Electrocatalysis with High Oxygen Flux. <i>Journal of the American Chemical Society</i> , 2012, 134, 197-200.	6.6	79
105	Transfer Printing Techniques for Materials Assembly and Micro/Nanodevice Fabrication. <i>Advanced Materials</i> , 2012, 24, 5284-5318.	11.1	727
106	Influence of Adsorbates on the Electronic Structure, Bond Strain, and Thermal Properties of an Alumina-Supported Pt Catalyst. <i>ACS Nano</i> , 2012, 6, 5583-5595.	7.3	53
107	Functional Protein Microarrays by Electrohydrodynamic Jet Printing. <i>Analytical Chemistry</i> , 2012, 84, 10012-10018.	3.2	64
108	Recent developments and applications of electron microscopy to heterogeneous catalysis. <i>Chemical Society Reviews</i> , 2012, 41, 8179.	18.7	107

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109	Triangular Elastomeric Stamps for Optical Applications: Near-Field Phase Shift Photolithography, 3D Proximity Field Patterning, Embossed Antireflective Coatings, and SERS Sensing. <i>Advanced Functional Materials</i> , 2012, 22, 2927-2938.	7.8	47
110	Soft Embossing of Nanoscale Optical and Plasmonic Structures in Glass. <i>ACS Nano</i> , 2011, 5, 5763-5774.	7.3	30
111	Synthesis, assembly and applications of semiconductor nanomembranes. <i>Nature</i> , 2011, 477, 45-53.	13.7	615
112	Industrial Ziegler-Type Hydrogenation Catalysts Made from $\text{Co}(\text{neodecanoate})_2$ or $\text{Ni}(\text{2-ethylhexanoate})_2$ and AlEt_3 : Evidence for Nanoclusters and Sub-Nanocluster or Larger Ziegler-Nanocluster Based Catalysis. <i>Langmuir</i> , 2011, 27, 6279-6294.	1.6	25
113	The Atomic Structural Dynamics of $\text{Ir}^3\text{-Al}_2\text{O}_3$ Supported $\text{Ir}^0\text{-Pt}$ Nanocluster Catalysts Prepared from a Bimetallic Molecular Precursor: A Study Using Aberration-Corrected Electron Microscopy and X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 3582-3591.	6.6	45
114	Programmable Chemical Gradient Patterns by Soft Grayscale Lithography. <i>Small</i> , 2011, 7, 3350-3362.	5.2	9
115	3D Microperiodic Hydrogel Scaffolds for Robust Neuronal Cultures. <i>Advanced Functional Materials</i> , 2011, 21, 47-54.	7.8	205
116	Strain Anisotropies and Self-Limiting Capacities in Single-Crystalline 3D Silicon Microstructures: Models for High Energy Density Lithium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2011, 21, 2412-2422.	7.8	176
117	3D Microperiodic Hydrogel Scaffolds for Robust Neuronal Cultures. <i>Advanced Functional Materials</i> , 2011, 21, 46-46.	7.8	1
118	LITHIUM-ION BATTERIES: Strain Anisotropies and Self-Limiting Capacities in Single-Crystalline 3D Silicon Microstructures: Models for High Energy Density Lithium-Ion Battery Anodes (<i>Adv. Funct. Mater.</i>)	7.8	176
119	Conformal Printing of Electrically Small Antennas on Three-Dimensional Surfaces. <i>Advanced Materials</i> , 2011, 23, 1335-1340.	11.1	499
120	Optimization of a permeation-based microfluidic direct formic acid fuel cell (DFAFC). <i>Electrophoresis</i> , 2011, 32, 947-956.	1.3	4
121	Genotyping by Alkaline Dehybridization Using Graphically Encoded Particles. <i>Chemistry - A European Journal</i> , 2011, 17, 2867-2873.	1.7	6
122	Unusual strategies for using indium gallium nitride grown on silicon (111) for solid-state lighting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10072-10077.	3.3	228
123	Ultrathin silicon solar microcells for semitransparent, mechanically flexible and microconcentrator module designs. , 2010, , 38-46.		2
124	Conjugated Carbon Monolayer Membranes: Methods for Synthesis and Integration. <i>Advanced Materials</i> , 2010, 22, 1072-1077.	11.1	50
125	Functional Nanostructured Plasmonic Materials. <i>Advanced Materials</i> , 2010, 22, 1102-1110.	11.1	109
126	Capillary induced self-assembly of thin foils into 3D structures. <i>Journal of the Mechanics and Physics of Solids</i> , 2010, 58, 2033-2042.	2.3	33

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127	Waterproof AllInGaP optoelectronics on stretchable substrates with applications in biomedicine and Robotics. Nature Materials, 2010, 9, 929-937.	13.3	557
128	Visualizing Materials Chemistry at Atomic Resolution. Analytical Chemistry, 2010, 82, 2599-2607.	3.2	31
129	Bifunctional polyacrylamide based polymers for the specific binding of hexahistidine tagged proteins on gold surfaces. Physical Chemistry Chemical Physics, 2010, 12, 4301-4308.	1.3	14
130	Guiding neuron development with planar surface gradients of substrate cues deposited using microfluidic devices. Lab on A Chip, 2010, 10, 1525.	3.1	144
131	Iridium Ziegler-Type Hydrogenation Catalysts Made from $[(1,5\text{-COD})\text{Ir}(\text{O})_2\text{C}_8\text{H}_{15}]_2$ and AlEt_3 : Spectroscopic and Kinetic Evidence for the Ir ^{III} Species Present and for Nanoparticles as the Fastest Catalyst. Inorganic Chemistry, 2010, 49, 8131-8147.	1.9	26
132	Compact monocrystalline silicon solar modules with high voltage outputs and mechanically flexible designs. Energy and Environmental Science, 2010, 3, 208.	15.6	65
133	Microfluidic contact printing: a versatile printing platform for patterning biomolecules on hydrogel substrates. Soft Matter, 2010, 6, 2238.	1.2	18
134	Structural characterization of bimetallic nanomaterials with overlapping x-ray absorption edges. Physical Review B, 2009, 80, .	1.1	25
135	Molded plasmonic crystals for detecting and spatially imaging surface bound species by surface-enhanced Raman scattering. Applied Physics Letters, 2009, 94, 243109.	1.5	36
136	Two- and three-dimensional folding of thin film single-crystalline silicon for photovoltaic power applications. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20149-20154.	3.3	198
137	Nanopost plasmonic crystals. Nanotechnology, 2009, 20, 434011.	1.3	28
138	Fabrication of Flexible Binary Amplitude Masks for Patterning on Highly Curved Surfaces. Advanced Functional Materials, 2009, 19, 3243-3253.	7.8	22
139	Direct Write Assembly of 3D Hydrogel Scaffolds for Guided Cell Growth. Advanced Materials, 2009, 21, 2407-2410.	11.1	266
140	Visualizing the Effect of Microenvironment on the Spatiotemporal RhoA and Src Activities in Living Cells by FRET. Small, 2009, 5, 1453-1459.	5.2	5
141	Structural Characterization of Pt ⁰ /Pd and Pd ⁰ /Pt Core/Shell Nanoclusters at Atomic Resolution. Journal of the American Chemical Society, 2009, 131, 8683-8689.	6.6	103
142	Multispectral Thin Film Biosensing and Quantitative Imaging Using 3D Plasmonic Crystals. Analytical Chemistry, 2009, 81, 5980-5989.	3.2	39
143	Optimization of 3D Plasmonic Crystal Structures for Refractive Index Sensing. Journal of Physical Chemistry C, 2009, 113, 10493-10499.	1.5	34
144	Omnidirectional Printing of Flexible, Stretchable, and Spanning Silver Microelectrodes. Science, 2009, 323, 1590-1593.	6.0	1,072

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145	Textural guidance cues for controlling process outgrowth of mammalian neurons. Lab on A Chip, 2009, 9, 122-131.	3.1	76
146	The Emergence of Nonbulk Properties in Supported Metal Clusters: Negative Thermal Expansion and Atomic Disorder in Pt Nanoclusters Supported on $\text{I}^3\text{-Al}_2\text{O}_3$. Journal of the American Chemical Society, 2009, 131, 7040-7054.	6.6	145
147	Seeing Molecules by Eye: Surface Plasmon Resonance Imaging at Visible Wavelengths with High Spatial Resolution and Submonolayer Sensitivity. Angewandte Chemie - International Edition, 2008, 47, 5013-5017.	7.2	62
148	Coordination-dependent surface atomic contraction in nanocrystals revealed by coherent diffraction. Nature Materials, 2008, 7, 308-313.	13.3	331
149	Nanostructured Plasmonic Sensors. Chemical Reviews, 2008, 108, 494-521.	23.0	2,245
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